

Attorney Docket No.: 270/175US (UMD-0060)
Inventors: DiCicco-Bloom et al.
Serial No.: 10/044,722
Filing Date: January 11, 2002
Page 3

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-45 (canceled).

Claim 46 (previously presented): A method for modulating the growth of a neuronal precursor cell comprising contacting a neuronal precursor cell with at least one ligand for a pituitary adenylate cyclase activating polypeptide (PACAP) receptor, PAC₁, thereby modulating the growth of the neuronal precursor cell.

Claim 47 (previously presented): A method for promoting proliferation of neuronal precursor cells comprising contacting a neuronal precursor cell with an agent which decreases the expression or amount of PACAP in the cell thereby promoting proliferation of the cell.

Claims 48 (previously presented): A method for treating a medical condition caused by aberrant growth of neuronal precursor cells comprising administering to a patient having a medical condition caused by aberrant growth of neuronal precursor cells a composition comprising at least one ligand for PAC₁ thereby modulating the growth of the neuronal precursor cells and treating the medical condition.

Claim 49 (previously presented): A method for increasing brain tissue comprising administering to a patient in need of

Attorney Docket No.: 270/175US (UMD-0060)
Inventors: DiCicco-Bloom et al.
Serial No.: 10/044,722
Filing Date: January 11, 2002
Page 4

treatment a PACAP antagonist thereby increasing neuronal precursor cell growth and brain tissue.